CONTENTS.

		PAGE
Proceedings of the Society of Arts		1, 89, 167, 259
The Course in Naval Architecture at the Institute of Technology	*Cecil H. Peabody*	4
Manufacture of Heavy Ordnance with Special Reference to Wire Construction	*W. H. Jaques*	19
Fire-Proof Construction	*N. Poulson*	41
High Frequency Electric Induction	*Elihu Thomson*	50
Influence of the Introduction of a Sulphonic Group upon the Power of a Developer	*A. A. Noyes* and *W. K. Gaylord*	60
Electrolytic Reduction of Nitrobenzene in Sulphuric Acid Solution	*Arthur A. Noyes* and *Arthur A. Clement*	62
Remarks on the Dedication of the New Science and Engineering Buildings of McGill University, Montreal,	*Francis A. Walker*	65
An Investigation of the Excursion of the Diaphragm of a Telephone Receiver	*Charles R. Cross* and *Arthur N. Mansfield*	69
Baccalaureate Sermon	*E. Winchester Donald*	80
The Fire Hazards of Electricity	*William Brophy*	91
Fire Risks and Electric Wires	*H. F. Parshall*	98
The Blower System of Heating and Ventilation	*Walter B. Snow*	103
College Athletics	*Francis A. Walker*	116
The Hydraulic Laboratory of the Massachusetts Institute of Technology	*Dwight Porter*	132
Additional Notes on the Prismatic Stadia-Telescope	*Robert H. Richards*	137
On Methods Used and Results Obtained in Making Germicidal-Efficiency Tests of a Disinfectant for Use in Railway Sanitation	*William T. Sedgwick*	143
The Educational Process of Training an Engineer	*Gaetano Lanza*	169
On the Excursion of the Diaphragm of a Telephone Receiver	*Charles R. Cross* and *Henry M. Phillips*	182
Nativity and Occupation of Members of the Massachusetts Legislature	*F. H. Howland* and *D. R. Dewey*	198
Metallurgical Lead Exhibits at the Columbian Exposition	*H. O. Hofman*	203
The Technical School and the University	*Francis A. Walker*	223
The Origin of Parallel and Intersecting Joints	*W. O. Crosby*	230
The Determination of the Electrolytic Dissociation of Salts by Solubility Experiments	*Arthur A. Noyes*	237

190027

Contents.

		PAGE
On Wurtz's Method for the Differentiation of Bacillus Typhi Abdominalis from Bacillus Coli Communis, and its Application to the Examination of Contaminated Drinking Water	*Albert P. Mathews*	241
Preliminary Note on a Method for the Harmonic Analysis of Alternating Currents	*Frank A. Laws*	252
Notes on Normal Intestinal Bacilli of the Horse and of Certain Other Domesticated Animals	*Harrison G. Dyar* and *Simeon C. Keith*	256
Some Recent Photographic Investigations of the Sun,	*George E. Hale*	262
The Removal of Pathogenic Bacteria from Drinking Water by Sand Filtration	*George W. Fuller*	273
The Metropolitan Sewerage System	*Howard A. Carson*	286
Some Experiments for Determining the Refractoriness of Fire-Clays	*H. O. Hofman* and *C. D. Demond*	301
On an Apparatus for the Measurement of Coefficients of Self-Induction and the Investigation of the Phenomena of Alternating Currents	*Frank A. Laws*	329
A New Torsion Machine	*Edward F. Miller*	342
Matrices Which Represent Vectors	*W. H. Metzler*	348
The Efficiency of Jack-Screws	*Edward F. Miller* and *William A. Johnston*	352
Books Received		258